Appendix "E" to Report PED21020/PW21002 Page 1 of 9

City of Hamilton Complete, Livable, Better Streets Design Manual

Typical Complete Streets Design Features December 2nd, 2020

Hamilton

1 Typical Complete Streets Design Features



Appendix "E" to Report PED21020/PW21002 Page 3 of 9

	Design Feature	Description
	Source OTM Book 18. Draft. 2020	
Crossing Treatments		Bicycle Traffic Signals are traffic signals that control the movement of cyclists at controlled crossing locations. Compared to General Traffic Signals, Bicycle Traffic Signals have smaller lenses that include bicycle stencils. They should be implemented at any controlled intersection where cyclists approach from a facility separated from motor vehicle traffic and at controlled midblock multi- use crossing locations.
nagement	Narrow Travel Lanes Surree: NACTO, 2013	Narrow travel lanes in the context of Complete Streets describes width reductions to general travel lanes. The purpose of this treatment is to force motorists to be more attentive to their path of travel and reduce their speeds. This can be accomplished by repainting travel lanes, increasing shoulder widths, and introducing bike lanes or on-street parking lanes.
Ma	Reduce Posted Speed Limits	Reductions in posted speed limits are a
Speed	Source: Ken Gigliotti, 2014	common Vision Zero and Road Safety strategy. Motor vehicle travel speed has demonstrated a positive correlation with the severity of injury among vulnerable road users when involved in motor vehicle collisions. Furthermore, breaking distances for motorists increase as operating speeds increase.

Appendix "E" to Report PED21020/PW21002 Page 4 of 9

	Design Feature	Description
Speed Management	Tighter curb radii Physical radius Effective radius	Reducing or 'tightening' curb radii at intersections forces motorists to reduce their speed when turning, giving them more time to check mirrors, blind spots, and crossings for vulnerable road users. Mountable truck aprons with larger curb radii may be implemented at intersection locations that support infrequent turning movement by larger vehicles such as trucks or transit vehicles.
	Introduce Curbside Management	Curbside management is a set of
Curbside Management	Source: OTM Book 18, Draft 2020	strategies to organize competing curbside uses such as on-street parking, cycling infrastructure, transit, and pick-up/drop- off. Designing curbside space using such strategies can alleviate conflicts between various users and guide the use of limited space efficiently. The introduction of parking laybys, designation of specific loading zones through pavement markings, and providing alternative spaces for loading or parking off of main streets are examples of curbside management strategies
	Identify Loading Zones	Loading zones are curbside spaces designated for the use of short-term delivery and loading. These locations are typically documented in local bylaw and signed in the boulevard. Optional hatched pavement markings may be used to further delineate these locations and deter motor vehicles encroachment when parked.

Appendix "E" to Report PED21020/PW21002 Page 5 of 9



Appendix "E" to Report PED21020/PW21002 Page 6 of 9



Appendix "E" to Report PED21020/PW21002 Page 7 of 9



Appendix "E" to Report PED21020/PW21002 Page 8 of 9

	Design Feature	Description
Streetscaping	Street Furniture	Adding street furniture, such as street benches, bike racks, and trash receptacles enhances the aesthetics of the streetscape. Having accessible street furniture encourages pedestrians to use the space to rest and socialize and to keep the area clean from litter.
Other	Road Diets (Repurpose Existing Curb to Curb Space)	 Road diets include any roadway retrofit project where roadway space is reallocated to support other modes, particularly cycling infrastructure. Strategies to allocate more space for other modes include: Reducing lane widths toward accepted minimums Converting a 4-lane cross-section to a 2-lane cross-section with a centre-left turn lane Removing on-street parking on one side of the street
	Consider Utility Realignment if Feasible Source: London Complete Streets Design Manual, 2018	Where existing above ground utilities located in the boulevard present a sightline obstruction or barrier to implementation of boulevard infrastructure, a decision may be made to move utilities if feasibly as part of a major road reconstruction project.

Appendix "E" to Report PED21020/PW21002 Page 9 of 9

	Design Feature	Description
Other	Transit and Cycle Track mixing zone	When a bicycle lane or cycle track crosses a transit stop practitioners may consider incorporating the bicycle facility into the transit platform. Designers should take care to minimize conflicts with passengers boarding, alighting or waiting for transit.
	Source: Google Maps, 2020	The bicycle facility should feature a ramp up to the platform to slow cyclists as they approach the conflict area. It is also recommended that the area where passengers board and alight be surrounded by bright yellow tactile paving. This clearly defines the conflict zone for all users, including those who are visually impaired.

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